

### **What is claimed is ;**

1. A device for monitoring a component arranged inside a computer, comprising:

5 a detection unit for detecting and acquiring an operation status data of the component arranged inside the computer;

an I<sup>2</sup>C (Inter Integrated Circuit) bus coupled to the detection unit, for transmitting the data;

10 a display panel arranged on a shell of the computer, for displaying the data;

a processor used for receiving the data from the I<sup>2</sup>C bus and displaying the data on the display panel; and

15 a regulation unit capable of issuing a first control signal to the processor for requesting the operation status of the component arranged inside the computer to be regulated, wherein the processor regulates the component arranged inside the computer by issuing a second control signal through the I<sup>2</sup>C bus.

2. The device of claim 1, wherein the regulation unit is arranged on the display panel.

20 3. The device of claim 1, wherein the regulation unit is further capable of issuing a third control signal to the processor for setting a critical range of the data.

25 4. The device of claim 3, wherein an alert signal will be generated by the processor when the processor determines that the data exceeds the critical range.

30 5. The device of claim 1, wherein the component arranged inside the computer is a video graphic adapter (VGA) card, the VGA card comprising a graphic processing unit (GPU), a fan, and a memory, such that the data includes a rotation speed of the fan, a working voltage and a working frequency of the memory, and a temperature, a working voltage, and a working frequency of the GPU.

6. The device of claim 1, wherein the component arranged inside the computer is a TV tuner card, such that the data includes a TV channel and a FM channel.

7. A method for monitoring a component arranged inside a computer, comprising steps of:

using a detection unit for detecting and acquiring operation status data of the component inside the computer;

using an I<sup>2</sup>C bus for transmitting the data to a display panel arranged at a shell of the computer;

using a regulation unit arranged on the display panel to issue a control signal to the detection unit through the I<sup>2</sup>C bus for regulating the operation status of the component inside the computer;

using the regulation unit to define a critical range of the data;

generating an alert signal if the data had exceed the critical range.

8. The method of claim 7, wherein the component arranged inside the computer is a video graphic adapter (VGA) card, the VGA card comprising a graphic processing unit (GPU), a fan, and a memory, such that the data includes a rotation speed of the fan, a working voltage and a working frequency of the memory, and a temperature, a working voltage, and a working frequency of the GPU.

9. The method of claim 7, wherein the component arranged inside the computer is a TV tuner card, such that the data includes a TV channel and a FM channel.

10. The method of claim 7, wherein the method is applicable to hardware, software and firmware.

11. The method of claim 7, wherein the alert signal is shown on the display panel.

12. The method of claim 7, wherein the alert signal is an audio signal.